



IFW16

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/08/978,633A

DATE: 10/04/2004  
TIME: 10:38:58

Input Set : A:\Enz53-d1.app  
Output Set: N:\CRF4\10042004\H978633A.raw

3 <110> APPLICANT: RABBANI, ELAZAR  
4 STAVRIANOPoulos, JANNIS G.  
5 DONEGAN, JAMES J.  
6 LIU, DAKAI  
7 KELKER, NORMAN E.  
8 ENGELHARDT, DEAN L.  
10 <120> TITLE OF INVENTION: NOVEL PROPERTY EFFECTING AND/OR PROPERTY EXHIBITING  
11 COMPOSITIONS FOR THERAPEUTIC AND DIAGNOSTIC USE  
13 <130> FILE REFERENCE: ENZ-53 (D1)  
15 <140> CURRENT APPLICATION NUMBER: 08/978,633A  
16 <141> CURRENT FILING DATE: 1997-11-25  
18 <150> PRIOR APPLICATION NUMBER: 08/574,443  
19 <151> PRIOR FILING DATE: 1995-12-15  
21 <160> NUMBER OF SEQ ID NOS: 63  
23 <170> SOFTWARE: PatentIn Ver. 3.2  
25 <210> SEQ ID NO: 1  
26 <211> LENGTH: 20  
27 <212> TYPE: PRT  
28 <213> ORGANISM: Influenza B virus  
30 <400> SEQUENCE: 1  
31 Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly  
32 1 5 10 15  
34 Met Ile Ala Gly  
35 20  
38 <210> SEQ ID NO: 2  
39 <211> LENGTH: 20  
40 <212> TYPE: DNA  
41 <213> ORGANISM: Bacteriophage T7  
43 <400> SEQUENCE: 2  
44 tgctctctaa gggtctactc 20  
48 <210> SEQ ID NO: 3  
49 <211> LENGTH: 15  
50 <212> TYPE: DNA  
51 <213> ORGANISM: Simian virus 40  
53 <400> SEQUENCE: 3  
54 ctctaaggta aatat 15  
56 <210> SEQ ID NO: 4  
57 <211> LENGTH: 16  
58 <212> TYPE: DNA  
59 <213> ORGANISM: Simian virus 40  
61 <400> SEQUENCE: 4  
62 tgtatTTtag attcaa 16  
64 <210> SEQ ID NO: 5

ENTERED

## RAW SEQUENCE LISTING

DATE: 10/04/2004

PATENT APPLICATION: US/08/978,633A

TIME: 10:38:58

Input Set : A:\Enz53-d1.app

Output Set: N:\CRF4\10042004\H978633A.raw

65 <211> LENGTH: 19  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Simian virus 40  
 69 <400> SEQUENCE: 5  
 70 tgctctctaa ggttaatat 19  
 73 <210> SEQ ID NO: 6  
 74 <211> LENGTH: 19  
 75 <212> TYPE: DNA  
 76 <213> ORGANISM: Simian virus 40  
 78 <400> SEQUENCE: 6  
 79 tgtatttttag ggtctactc 19  
 81 <210> SEQ ID NO: 7  
 82 <211> LENGTH: 19  
 83 <212> TYPE: RNA  
 84 <213> ORGANISM: Bacteriophage T7  
 86 <400> SEQUENCE: 7  
 87 ugcucucuaa gguauauau 19  
 89 <210> SEQ ID NO: 8  
 90 <211> LENGTH: 19  
 91 <212> TYPE: RNA  
 92 <213> ORGANISM: Bacteriophage T7  
 94 <400> SEQUENCE: 8  
 95 uguauuuuag ggucuacuc 19  
 97 <210> SEQ ID NO: 9  
 98 <211> LENGTH: 20  
 99 <212> TYPE: RNA  
 100 <213> ORGANISM: Bacteriophage T7  
 102 <400> SEQUENCE: 9  
 103 ugcucucuaa gggucuacuc 20  
 105 <210> SEQ ID NO: 10  
 106 <211> LENGTH: 49  
 107 <212> TYPE: DNA  
 108 <213> ORGANISM: Artificial Sequence  
 110 <220> FEATURE:  
 111 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 oligonucleotide  
 113 <400> SEQUENCE: 10  
 114 ggaattcgtc tcgagctctg atcaccacca tggacacgat taacatcg 49  
 116 <210> SEQ ID NO: 11  
 117 <211> LENGTH: 55  
 118 <212> TYPE: DNA  
 119 <213> ORGANISM: Artificial Sequence  
 121 <220> FEATURE:  
 122 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 oligonucleotide  
 124 <400> SEQUENCE: 11  
 125 gactagttgg tctcgctct tttttggagg agtgcgttc ttagcgatgt taatc 55  
 127 <210> SEQ ID NO: 12  
 128 <211> LENGTH: 46  
 129 <212> TYPE: DNA  
 130 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/08/978,633A DATE: 10/04/2004  
 TIME: 10:38:58

Input Set : A:\Enz53-d1.app  
 Output Set: N:\CRF4\10042004\H978633A.raw

132 <220> FEATURE:  
 133 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 135 <400> SEQUENCE: 12  
 136 ggaattcgtc tcggagaaaag gtaaaattct ctgacatcga actggc 46  
 138 <210> SEQ ID NO: 13  
 139 <211> LENGTH: 33  
 140 <212> TYPE: DNA  
 141 <213> ORGANISM: Artificial Sequence  
 143 <220> FEATURE:  
 144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 146 <400> SEQUENCE: 13  
 147 gactagtggc ctcggcttag agagcatgtc agc 33  
 149 <210> SEQ ID NO: 14  
 150 <211> LENGTH: 33  
 151 <212> TYPE: DNA  
 152 <213> ORGANISM: Artificial Sequence  
 154 <220> FEATURE:  
 155 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 157 <400> SEQUENCE: 14  
 158 ggaattcggc ctcgggtcta ctcgggtggcg agg 33  
 160 <210> SEQ ID NO: 15  
 161 <211> LENGTH: 27  
 162 <212> TYPE: DNA  
 163 <213> ORGANISM: Artificial Sequence  
 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 168 <400> SEQUENCE: 15  
 169 gactagtgcgt tacgcgaacg caaagtc 27  
 171 <210> SEQ ID NO: 16  
 172 <211> LENGTH: 36  
 173 <212> TYPE: DNA  
 174 <213> ORGANISM: Artificial Sequence  
 176 <220> FEATURE:  
 177 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 179 <400> SEQUENCE: 16  
 180 ggaattcgtc tctaaggtaa atataaaatt tttaag 36  
 182 <210> SEQ ID NO: 17  
 183 <211> LENGTH: 40  
 184 <212> TYPE: DNA  
 185 <213> ORGANISM: Artificial Sequence  
 187 <220> FEATURE:  
 188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 190 <400> SEQUENCE: 17  
 191 gactagtgcgt ctctgaccct aaaatacaca aacaattaga 40  
 193 <210> SEQ ID NO: 18  
 194 <211> LENGTH: 92  
 195 <212> TYPE: DNA

196 <213> ORGANISM: Artificial Sequence

198 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/978,633A

DATE: 10/04/2004

TIME: 10:38:58

Input Set : A:\Enz53-d1.app

Output Set: N:\CRF4\10042004\H978633A.raw

199 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide

201 &lt;400&gt; SEQUENCE: 18

202 ggaattcgtc tcgagctctg atcaccacca tggacacgat taacatcgct aagaacgaca 60  
203 ctcctccaaa aaagagacga gaccaactag tc 92

205 &lt;210&gt; SEQ ID NO: 19

206 &lt;211&gt; LENGTH: 92

207 &lt;212&gt; TYPE: DNA

208 &lt;213&gt; ORGANISM: Artificial Sequence

210 &lt;220&gt; FEATURE:

211 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide

213 &lt;400&gt; SEQUENCE: 19

214 gactagttgg gctcgctctt ttttggagg aggggcgttc ttagcgatgt taatcggttc 60  
215 catggtgta tgcagagctc gagacgaatt cc 92

217 &lt;210&gt; SEQ ID NO: 20

218 &lt;211&gt; LENGTH: 73

219 &lt;212&gt; TYPE: DNA

220 &lt;213&gt; ORGANISM: Artificial Sequence

222 &lt;220&gt; FEATURE:

223 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide

225 &lt;400&gt; SEQUENCE: 20

226 ggaattcgtc gcgagctctg atcaccacca tggacacgat taacatcgct aagaacgaca 60  
227 ctcctccaaa aaa 73

229 &lt;210&gt; SEQ ID NO: 21

230 &lt;211&gt; LENGTH: 77

231 &lt;212&gt; TYPE: DNA

232 &lt;213&gt; ORGANISM: Artificial Sequence

234 &lt;220&gt; FEATURE:

235 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide

237 &lt;400&gt; SEQUENCE: 21

238 tctttttt ggaggagtgt cgttcttagc gatgttaatc gtgtccatgg tggtatgcag 60  
239 agctcgagac gaattcc 77

241 &lt;210&gt; SEQ ID NO: 22

242 &lt;211&gt; LENGTH: 13

243 &lt;212&gt; TYPE: DNA

244 &lt;213&gt; ORGANISM: Artificial Sequence

246 &lt;220&gt; FEATURE:

247 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide

249 &lt;400&gt; SEQUENCE: 22

250 ggaattcgtc tcg 13  
252 <210> SEQ ID NO: 23

253 &lt;211&gt; LENGTH: 33

254 &lt;212&gt; TYPE: DNA

255 &lt;213&gt; ORGANISM: Artificial Sequence

257 &lt;220&gt; FEATURE:

258 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide

260 &lt;400&gt; SEQUENCE: 23

261 gagaaaggta aaattctctg acatcgact ggc 33

264 <210> SEQ ID NO: 24  
265 <211> LENGTH: 17

RAW SEQUENCE LISTING DATE: 10/04/2004  
 PATENT APPLICATION: US/08/978,633A TIME: 10:38:58

Input Set : A:\Enz53-d1.app  
 Output Set: N:\CRF4\10042004\H978633A.raw

266 <212> TYPE: DNA  
 267 <213> ORGANISM: Artificial Sequence  
 269 <220> FEATURE:  
 270 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 272 <400> SEQUENCE: 24  
 273 tctccgaaqac gaattcc 17  
 275 <210> SEQ ID NO: 25  
 276 <211> LENGTH: 29  
 277 <212> TYPE: DNA  
 278 <213> ORGANISM: Artificial Sequence  
 280 <220> FEATURE:  
 281 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 283 <400> SEQUENCE: 25  
 284 ttccatTTTA agagactgta gcttgaccg 29  
 286 <210> SEQ ID NO: 26  
 287 <211> LENGTH: 106  
 288 <212> TYPE: DNA  
 289 <213> ORGANISM: Artificial Sequence  
 291 <220> FEATURE:  
 292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 294 <400> SEQUENCE: 26  
 295 ggaattcgtc tcgagctctg atcaccacca tggacacgat taacatcgct aagaacgaca 60  
 296 ctcctccaaa aaagagaaag gtAAAATTCT ctgacatcga actggc 106  
 298 <210> SEQ ID NO: 27  
 299 <211> LENGTH: 106  
 300 <212> TYPE: DNA  
 301 <213> ORGANISM: Artificial Sequence  
 303 <220> FEATURE:  
 304 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide  
 306 <400> SEQUENCE: 27  
 307 gccagttcga tgtcagagaa ttttaccttt ctcttttg gaggagtgtc gttcttagcg 60  
 308 atgttaatcg tgtccatgtt ggtagtcaga gctcgagacg aattcc 106  
 310 <210> SEQ ID NO: 28  
 311 <211> LENGTH: 50  
 312 <212> TYPE: DNA  
 313 <213> ORGANISM: Bacteriophage T7  
 315 <400> SEQUENCE: 28  
 316 atggacacgta ttaacatcgta aagaacgac ttctctgaca tcgaaactggc 50  
 318 <210> SEQ ID NO: 29  
 319 <211> LENGTH: 50  
 320 <212> TYPE: DNA  
 321 <213> ORGANISM: Bacteriophage T7  
 323 <400> SEQUENCE: 29  
 324 gccagttcga tgtcagagaa gtcgttctta gcgtatgtaa tcgtgtccat 50  
 326 <210> SEQ ID NO: 30  
 327 <211> LENGTH: 77  
 328 <212> TYPE: DNA  
 329 <213> ORGANISM: Artificial Sequence  
 331 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 10/04/2004  
 PATENT APPLICATION: US/08/978,633A                    TIME: 10:38:59

Input Set : A:\Enz53-d1.app  
 Output Set: N:\CRF4\10042004\H978633A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24  
 Seq#:1; Line(s) 25,26,27,28,29,30,31,32,33,34,35,36,37,38  
 Seq#:2; Line(s) 39,40,41,42,43,44,48  
 Seq#:3; Line(s) 49,50,51,52,53,54,55,56  
 Seq#:4; Line(s) 57,58,59,60,61,62,63,64  
 Seq#:5; Line(s) 65,66,67,68,69,70,73  
 Seq#:6; Line(s) 74,75,76,77,78,79,80,81  
 Seq#:7; Line(s) 82,83,84,85,86,87,88,89  
 Seq#:8; Line(s) 90,91,92,93,94,95,96,97  
 Seq#:9; Line(s) 98,99,100,101,102,103,104,105  
 Seq#:10; Line(s) 106,107,108,109,110,112,113,114,115,116  
 Seq#:11; Line(s) 117,118,119,120,121,123,124,125,126,127  
 Seq#:12; Line(s) 128,129,130,131,132,134,135,136,137,138  
 Seq#:13; Line(s) 139,140,141,142,143,145,146,147,148,149  
 Seq#:14; Line(s) 150,151,152,153,154,156,157,159,160  
 Seq#:15; Line(s) 161,162,163,164,165,167,168,169,170,171  
 Seq#:16; Line(s) 172,173,174,175,176,178,179,180,181,182  
 Seq#:17; Line(s) 183,184,185,186,187,189,190,191,192,193  
 Seq#:18; Line(s) 194,195,196,197,198,200,201,202,203,204,205  
 Seq#:19; Line(s) 206,207,208,209,210,212,213,214,215,216,217  
 Seq#:20; Line(s) 218,219,220,221,222,224,225,226,227,228,229  
 Seq#:21; Line(s) 230,231,232,233,234,236,237,238,239,240,241  
 Seq#:22; Line(s) 242,243,244,245,246,248,249,250,251,252  
 Seq#:23; Line(s) 253,254,255,256,257,259,260,261,264  
 Seq#:24; Line(s) 265,266,267,268,269,271,272,274,275  
 Seq#:25; Line(s) 276,277,278,279,280,282,283,284,285,286  
 Seq#:26; Line(s) 287,288,289,290,291,293,294,295,296,297,298  
 Seq#:27; Line(s) 299,300,301,302,303,305,306,307,308,309,310  
 Seq#:28; Line(s) 311,312,314,315,316,317,318  
 Seq#:29; Line(s) 319,320,322,323,324,325,326  
 Seq#:30; Line(s) 327,328,329,330,331,333,334,335,336,337,338  
 Seq#:31; Line(s) 339,340,341,342,343,345,346,347,348,349,350  
 Seq#:32; Line(s) 351,352,353,354,355,357,358,359,360,361,362  
 Seq#:33; Line(s) 363,364,365,366,367,369,370,371,372,373,374  
 Seq#:34; Line(s) 375,376,377,378,379,381,382,383,384,385,386  
 Seq#:35; Line(s) 387,388,389,390,391,393,394,395,396,397,398  
 Seq#:36; Line(s) 399,400,401,402,403,405,406,407,408,409,410  
 Seq#:37; Line(s) 411,412,413,414,415,417,418,419,420,421,422  
 Seq#:38; Line(s) 423,424,425,426,427,429,430,431,432,433  
 Seq#:39; Line(s) 434,435,436,437,438,440,441,442,443,444  
 Seq#:40; Line(s) 445,446,447,448,449,451,452,453,454,455,456  
 Seq#:41; Line(s) 457,458,459,460,461,463,464,465,466,467,468  
 Seq#:42; Line(s) 469,470,471,472,473,475,476,477,478,479

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/08/978,633A

DATE: 10/04/2004  
TIME: 10:38:59

Input Set : A:\Enz53-d1.app  
Output Set: N:\CRF4\10042004\H978633A.raw

Seq#:43; Line(s) 480,481,482,483,484,486,487,488,489,490  
Seq#:44; Line(s) 491,492,493,494,495,497,498,499,500,501,502  
Seq#:45; Line(s) 503,504,505,506,507,509,510,511,512,513,514  
Seq#:46; Line(s) 515,516,517,518,519,521,522,523,524,525,526  
Seq#:47; Line(s) 527,528,529,530,531,533,534,535,536,537,538  
Seq#:48; Line(s) 539,540,541,542,543,545,546,547,548,549,550  
Seq#:49; Line(s) 551,552,553,554,555,557,558,559,560,561,562  
Seq#:50; Line(s) 563,564,565,566,567,569,570,571,572,573,574  
Seq#:51; Line(s) 575,576,577,578,579,581,582,583,584,585,586

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/08/978,633A

DATE: 10/04/2004

TIME: 10:38:59

Input Set : A:\Enz53-d1.app

Output Set: N:\CRF4\10042004\H978633A.raw